MARSHALL STAR

Marshall Space Flight Center **Jan. 13, 2000**

"We bring people to space — We bring space to people"

Predicts Center's John Rogacki

Marshall 'will revolutionize Space Transportation'

by Mike Wright

Dr. John R. (Row) Rogacki, director of the Marshall Center's Space Transportation Directorate, has a vision: He wants the world to look at Marshall, and at the Space Transportation Directorate in particular, and say "those are the people who revolutionized space transportation."

Rogacki came to Marshall in July 1999 after spearheading delivery of air, space and missile propulsion technologies as director of the Air Force Research Laboratory Propulsion Directorate at Wright-Patterson Air Force Base, Ohio.

Now, at the dawn of the 21st century, he is in charge of the future of space transportation for Marshall. And, it is a future he predicts with optimism. "I think as one individual has put it, the cosmic tumblers are lining up in such a way that we may be standing at the point where something great is about to happen."

Rogacki believes there is a growing awareness "of the

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Photo by Terry Leibold, NASA/Marshall Space Flight Center

Ambassador visits Marshall

James C. Rosapepe, left, the U.S. ambassador to Romania, chats with Center Director Art Stephenson during a visit to Marshall Jan. 5. Following a Center overview, the ambassador toured the Microgravity Research Program's Biotechnology facilities in Bldg. 4464 and the Payload Operations Integration Center.

In Microgravity Materials Science

Four Marshall scientists receive NASA research grants

Four Marshall scientists are among the 65 researchers selected to receive NASA research grants. The grants — to conduct microgravity materials science research on Earth and in space — total approximately $22 million over four years.

Dr. Ching-Hua Su, Dr. Donald C. Gillies and Dr. Edwin C. Ethridge, all of Marshall's Materials Science Group of the Microgravity Science and Applications Department, and Dr. Konstatin Mazuruk, a Universities Space Research Association employee in the Materials Science Group, were selected. Each will pursue research independently.

As the Lead Center for NASA's microgravity research, Marshall will manage the research efforts under the auspices of NASA's Office of Life and Microgravity Science and Applications at NASA Headquarters in Washington, D.C.

This research offers investigators the opportunity to use a microgravity or low-gravity environment to enhance the understanding of fundamental physical and chemical processes associated with materials science.

Researchers will use NASA's microgravity research facilities such as drop tubes, drop towers and aircraft flying parabolic trajectories, with the flight-definition investigators working toward experiments on space flight test beds such as the International Space Station and Space Shuttle.

Sixty of the grants are to conduct ground-based research, while the remaining five are flight-definition efforts. Twenty-two of these grants are for continuation of work currently being funded by NASA, but the remaining 43 represent new research efforts.

NASA received 232 proposals in response to this research announcement. These proposals were all peer-reviewed by scientific and technical experts from academia, government and industry. In addition, a team from Marshall reviewed the engineering feasibility of those proposals selected for flight definition.

A list of awardees by state, their institutions and research titles can be found on the Internet at:

ftp://ftp.hq.nasa.gov/pub/pao/pressrel/2000/00-001a.txt

"Safety Today, Tomorrow, A Lifetime"
— Safety slogan submitted by ***Carol Medlen, CSC***

NASA selects 25 innovative small business projects

America's space agency does more than explore space: It also stimulates small and disadvantaged businesses to develop new technologies.

To this end, NASA has selected 25 research proposals for negotiation of Phase 2 contract awards for its Small Business Innovation Research (SBIR) Program. The total value of the awards is expected to be more than $15 million and will be conducted by 25 firms in 12 states.

These selections will assist future NASA missions by providing advanced technologies in such areas as high-optical-quality, lightweight reflectors and mirrors; high-speed digital communications links with reduced power and size requirements; and reduced mass requirements for spacecraft thermal-control systems.

Phase 2 continues development of the most promising previously selected Phase 1 projects. Selection criteria include scientific and technical merit, future importance and eventual value of the innovation to NASA, company capabilities and commercial potential.

Funding for Phase 2 contracts may be up to $600,000 for a two-year performance period.

SBIR contractors submitted 319 Phase 2 proposals; 103 of these proposals were selected on Aug. 27, 1999.

The goals of the SBIR program are to stimulate technological innovation, increase the use of small business (including women-owned and disadvantaged firms) in meeting federal research and development needs, and increase private sector commercialization of federally funded research results.

Four of the companies are disadvantaged firms and three are women-owned firms.

The NASA SBIR Program Management Office is located at the Goddard Space Flight Center in Greenbelt, Md., with executive oversight by NASA's Office of Aero-Space Technology, NASA Headquarters in Washington, D.C. Individual SBIR projects are managed by NASA's 10 field centers.

A listing of the selected companies can be found on the Internet at: http://sbir.nasa.gov

Employees may apply for CFO Fellows Program

The government-wide Chief Financial Officers (CFO) Council has created a CFO Council Fellows Program to provide career development opportunities to promising financial and resources managers.

The program provides the federal government with a cadre of diverse, experienced staff that will be a source for future financial management leaders, including chief financial officers and deputy chief financial officers.

The 2000-2001 program is targeted to place candidates from GS-13 through GS-15 or equivalent grade levels. Each CFO Council agency may nominate up to three candidates per year.

A selection committee approves candidates and places them into host agencies that have submitted qualified plans that can be matched to the professional needs of chosen candidates.

Candidates must have served in a federal financial and/or resources management capacity for at least one year. A certified public accountant or certified government financial manager, or a degree with a concentration of financial management is highly desirable.

Employees interested in submitting an application package should call Janie Moyers at 544-7552 as soon as possible. Packages must be submitted by Feb. 1 to meet the program deadline. NASA will sponsor at least one NASA employee as a CFO Fellow at another federal agency, and will host one non-NASA federal employee in a NASA-hosted CFO Fellow position.

Marshall's 'Sweep' Team identifies, corrects housekeeping issues

Spring housekeeping came a little late last year, as a Marshall "Sweep" Team began work in late June to comb the Center and identify safety, environmental, health and housekeeping discrepancies.

This Marshall team began to see things on the Center as visitors might see them, initiate work requests to fix items where practical and report findings and recommendations.

They found a lack of visible evidence that safety is really No. 1 at Marshall, as well as many instances of poor housekeeping practices throughout the Center — excess "stuff" in many areas, numerous lay-down yards or "junk" yards and several locations that needed paint, grounds maintenance and NASA worm eradication.

"Much has happened in the past seven months, including a positive response from building managers to get results," said Jim Carter, cleanup team lead and deputy director of the Center Operations Directorate. "Marshall's safety message is now held to a higher standard, there have been significant efforts to correct poor housekeeping and over 195 tons of junk have been properly disposed.

"The Center employees deserve the kudos for making this happen," Carter said. "And yet there is more to complete the task over the next several months. Area managers will begin monthly reporting of the Status of their areas to the Center director with a realistic goal to be 'Center Clean' by the May 2000 Open House."

There have been significant improvements in the material storage yards and in specific buildings, as some area managers are fully engaged in supporting this effort, Carter said. Everyone's help is needed to make our "home" at work more safe and enjoyable.

To report cleanup issues, call Carter at 544-6630 or e-mail: Jim.Carter@msfc.nasa.gov

Personal protective equipment helps keep workforce safe

by Johnney Mason and M.F. Dodd

It is important to always wear the proper protective equipment when performing a potentially hazardous task. Unexpected accidents happen.

What is PPE? Personal Protective Equipment (PPE) includes safety goggles and glasses, safety prescription lenses, welding helmets and shields, safety shoes, aprons, suits, gloves, protective headgear, face shields and fall protection equipment.

To some, it means Pestering Piece of Equipment. Improper selection and fit of PPE can, no doubt, be a pestering situation. The selection and fit of PPE should be based on an individual's body features — not one size fits all, or on just what is available.

Proper selection and fit provides an individual with the best protection possible against hazards that cannot be controlled by engineering design, while maintaining a comfort level to perform the task required.

Some view PPE as gaudy and uncomfortable. This is why it is important to make the proper selection and fit. Automobiles are selected because of style and reliability. PPE has a reputation of not being stylish. But vast improvements have been made in the fit and style of PPE without affecting the reliability of the equipment.

Remember, when selecting PPE, proper selection and fit is very important in protection from hazards. The definition of PPE is not a pestering piece of equipment, but equipment designed to protect you from injury.

For questions or comments, call the Marshall Safety and Mission Assurance Office at 544-0046, or the Environmental Health Office at 544-2390. Additional information may be obtained in MWI 8715.4, "Personal Protective Equipment"; MPD 1860.1, "Laser Safety", MPD 1860.2, "Radiation Safety Program"; MPD 1840.3, MSFC "Respiratory Protection Program"; and, OSHA 1910 Subpart I, "Personal Protective Equipment."

The authors, contractors employed by Hernandez Engineering Inc., support the Safety and Mission Assurance Office.

Things employees should know:

- Employers must provide proper PPE.
- The use of PPE is required when hazards, processes, environment, chemical hazards, radiological hazards or mechanical irritants are encountered which could cause injury or impairment in the function of any part of the body through absorption, inhalation or physical contact.
- Supervisors are required to perform an assessment of the workplace and job to determine if hazards are present, or likely to be present which would require the use of PPE. (See Appendix A of Marshall Work Instruction 8715.4.)
- Supervisor must assure PPE is used, where required in respective work areas. This also includes assuring visitors are provided and use proper PPE.
- Once it is determined PPE is required, employees must:
  - √ Select the proper type of equipment on the basis of hazards to which each individual will be exposed.
  - √ Be instructed and trained in the proper use and maintenance of equipment and its limitations.
  - √ Be medically qualified by the medical center to wear the equipment

Photo by Adam Petlin/FOXNews.com

The land way down under

Marshall scientist Richard Hoover of the Space Science Department kneels to dig for samples of microorganisms with former astronaut Owen Garriott, standing on left. Hoover is taking part in a private research expedition to Antarctica hoping to collect tiny microorganisms locked in ice and permafrost. This study will help scientists understand how to recognize tiny lifeforms and how they survive in extreme environments.

Upcoming Events

Early Out Authority Curtailed — Marshall's early out authority ends Feb. 3 now that the Center is no longer downsizing. Employees age 50 with at least 20 years of service, or employees with 25 years of service at any age, who are interested in retiring under this authority, must submit retirement applications to Edwina Bressette no later than Jan. 21. For more information, call 544-8115.

Volunteers Needed for Youth Task Force — Marshall's Equal Opportunity Office is looking for volunteers for a youth motivational task force at Alabama A&M University. Volunteers will spend two days on campus speaking to students and classes emphasizing skills necessary for making realistic career decisions. For more information, call Willie Love at 544-0088.

'Write in Plain English' — The "Write in Plain English" course will be offered from 8:30 a.m.-4:30 p.m. Jan. 18-19 in Bldg. 4200, room G-21. The course focuses on enhancing your ability to produce effective documents. Civil service employees should register via AdminSTAR. For more information, call Vanessa Suggs at 544-7527.

Introduction to Internet Security — An introduction to Internet security class will be held from 8 a.m.-4:30 p.m. Jan. 25-27 in Bldg. 4200, room G19. This course introduces the fundamentals of information technology security and Internet concerns to the average information technology user, emerging technician and manager. For more information or to register, call Francee Logston at 544-3930 or Charlie Petty at 544-0885.

Black History Month Competitions — The Marshall Black History Month Committee is sponsoring a poster contest, science fair and essay contest for local students. The competitions are open to children of Marshall civil servants and contractors. Winners will be recognized for each competition The poster contest is for students in grades 3-5. A half-sized poster should relate to "African-American Contributions of the 20th Century." Attach a cover sheet that includes the student's name, grade level, school, school system, teacher and topic. Posters must be received at the Marshall Library in Bldg. 4200 or the Huntsville-Madison County Public Library at 915 Monroe St. in Huntsville by Jan. 26. Students in grades 6-8 are invited to participate in a science fair. A three-panel display should highlight a project that falls within chemistry, physics/optics, engineering or biology. Call Johnnie Clark at 544-2799 to obtain an application. Applications are due by Jan. 28. The essay contest is for students in grades 9-12. The essay must be between 200 and 250 words and address "The African-American Legacy and the Challenges of the 21st Century." Submit essays to Johnnie Clark, ED34, no later than Jan. 26.

4th AMPET conference abstracts due Feb. 1

The 4th Conference on Aerospace Materials, Processes and Environmental Technology (AMPET) will be held at the Von Braun Center in Huntsville Sept. 18-20. NASA, the Marshall Center, the Society for Advancement of Materials and Processes Engineering, the American Institute of Aeronautics and Astronautics and others are sponsoring the conference.

The new millennium challenges us to produce innovative materials, processes, manufacturing and environmental technologies that meet low-cost aerospace transportation needs while maintaining U.S. leadership.

The scope of the conference has been expanded to include aerospace materials, processes and manufacturing, as well as environmental replacement technologies.

The organizing committee solicits abstracts for papers and presentations on topics related to evolving advances in environmental, manufacturing, materials and processes technologies associated with design, development, test, production and use of aerospace hardware.

For the complete topic listing, go to: http://ampet.msfc.nasa.gov/

Abstracts are required no later than Feb. 1. The conference is unclassified and prospective speakers are invited to submit unclassified, English language abstracts, not to exceed one page, to Beth Cook, ED30.

Full-text NASA technical standards available online

The NASA Technical Standards Program, in collaboration with the NASA Engineering Standards Steering Council, now offers users at all NASA Centers and the Jet Propulsion Laboratory in Pasadena, Calif., the capability to download full-text standards documents for the listed NASA Preferred Technical Standards. The Web address is: http://standarda.nasa.gov

This free service is for adopted non-government technical standards (currently the American Institute of Aeronautics and Astronautics, American Society for Testing and Materials, Institute of Electrical and Electronics Engineers and Society of Automotive Engineers), and is available to all NASA element and contractor users with a <nasa.gov> domain IP address.

NASA-developed technical standards, plus the Consultative Committee for Space Data Systems and Department of Defense technical standards, are available to all users without charge. This amounts to about 80 percent of the more than 1,000 NASA Preferred Technical Standards Products listed on the Web site.

This full-text technical standards document availability will be expanded by the NASA Technical Standards Program for other non-government products as circumstances and resources permit in order to meet the technical standards requirements of the NASA Enterprises' Programs and Projects.

Center employees take Buyout Incentive Plan

Marshall's latest "buyout" or opportunity to receive separation incentives ended Dec. 31 with 153 employees taking advantage of the offer which covered a period that began Aug. 3, 1999.

The buyout offered retirement or separation incentives up to $25,000 for eligible employees.

The following is a list of Marshall employees who have taken the buyout.

Alexander, Douglas, ED11
Anderson, John, ED27
Arnold, Ray, SD60
Atkins, John, ED15
Bachtel, Frederick, TD01
Barefield, Alexander, ED34
Bean, Alan, ED24
Bechtel, Robert, ED15
Bishop, James, ED43
Blackwell, June, PS20
Carswell, Sharon, TD03
Champion, Peggy, SD20
Chou, Lynn, TD64
Coleman, Archie, ED27
Cooper, Jacqueline, ED32
Cornelison, Joni, TD64
Cothran, Ernestine, SD01
Courtenay, StJohn, ED16
Crawford, James, TD72
Crawford, Victoria, CD10
Cronise, Raymond, SD48
Cucarola, Gerald, RS20
Daniel, Charles, FD20
Davis, Hilda, PS50
Davis, Juanita, AD21
Davis, Wanda, SD20
Eaton, Peggy, ED22
Emens, Mildred, RS20
Eoff, William, TD30
Eudy, Robert, TD30
Facemire, Barbara, SD47
Faile, Gwyn, ED22
Farley, Benny, ED20
Frazier, John, QS10
Fredricks, Thomas, FD21
Fuller, Foy, ED21
Gaffin, Robert, TD61
Galloway, William, SD44
Garner, Ozie, AD41
Goldberg, Benjamin, MP51
Gover, Wilbert, ED19
Guffin, Orville, SD71
Guire, Nancy, CD01
Hammond, Vondaleen, PS20
Hardee, Mikael, MP41
Hargrove, Richard, FD23
Harwell, Iva, RS20
Hays, Harvey, QS20
Henderson, Janet, SD80
Henderson, Sandra, ED43
Hester, James, MP51
Hillard, Paul, FD21
Hinkle, Kenneth, TD31
Hooper, William, QS30
Horne, J, AD01
Houston, Charles, AD30
Huber, Harold, MP41
Hudgins, Mellina, PS10
Hudson, Susan, TD63
Hughes, Elbert, AD41
Humphries, William, FD01
Hyatt, Sherry, RS40
Jackson, Robert, SD40
James, Mary, RS50
Jernigan, Robert, FD21
Jex, David, SD46
Jones, Charlie, FD30
Keim, Robert, AD32
Kesler, Herman, SD21
Key, Leigh, MP51
Kim, Jonnathan, ED12
Kroes, Roger, SD48
Lechner, Larry, CD30
Little, Robert, FD32
Lones, Phyllis, CD10
Martin, Michael, ED10
Mattox, Russell, ED13
McBride, James, ED21
McClearen, Richard, PS40
McClure, Marena, PS10
McCranie, George, PS20
McMullins, Margaret, MP31
McPherson, William, ED33
Meek, Opal, ED13
Millwood, Billy, TD03
Mitchell, William, MP21
Monk, Jan, TD01
Monks, Leonard, AD41
Newberry, Jimmie, RS50
Nichols, Ronald, MP51
Oliver, Charles, ED12
Olivier, Jean, XP01
Olsen, Gregory, ED44
Ornburn, William, AD40
Paseur, Barbara, Ed37
Payne, Clovis, CD10
Payne, Edris, CD10

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Rogacki

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John "Row" Rogacki

importance of space transportation among the nation's leadership." This, he says, "may begin to make resources available for us to go forward and solve some of the problems that have been keeping us from safe, reliable, affordable space transportation."

Kindling that awareness, says Rogacki, is vital among all the "stakeholders" in the future of space transportation. To do so, the directorate hosted a Space Transportation Day in Huntsville last fall that included representatives from industry, academia and other NASA Centers. "I believe we had over 900 present so it was a major event. We reviewed the status of current programs and projects like X-33, X-34, X-37 and Advanced Space Transportation."

Then in early November, Rogacki, Center Director Art Stephenson, and Bob Sackheim, Marshall's assistant director for Space Propulsion, and representatives from other NASA Centers affiliated with Space Transportation visited the premises of a number of American launch industry companies.

"Our purpose was to discuss with them how NASA can assist U.S. launch companies in developing new generations of space transportation capability, in order to recapture worldwide industry leadership," he said.

The X-33, X-34 and X-37 technology demonstrators scheduled to fly in the early years of the 21st century are designed to reduce space transportation costs from today's price tag of $10,000 per pound to $1,000 per pound before 2010. Marshall's

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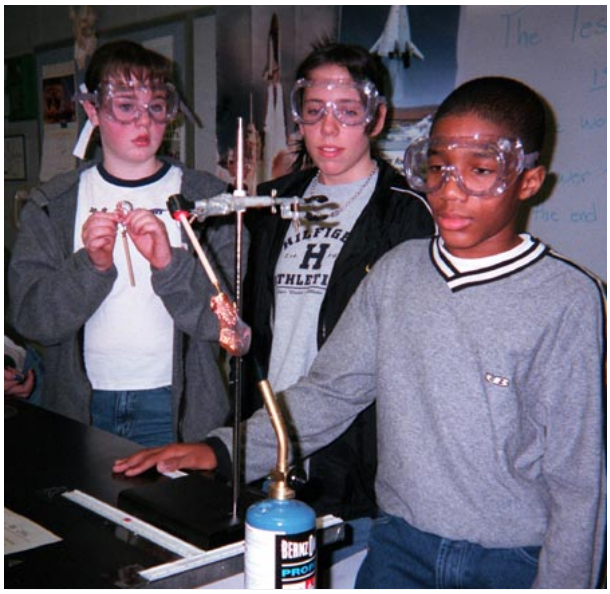
'Earth to Orbit' challenge

Seventh graders in Jennifer Elam's science class at the Meridianville, Ala., Middle School observed the safety measures that are stressed throughout the Earth to Orbit Engineering Design Challenge. The students designed, built and tested model spacecraft to determine the best thermal protective design. Field testing of this project is directed by Dr. Barbara Anthony, a contractor employed by Ai Signal Research Inc., who supports the Education Programs Department of the Customer and Employee Relations Directorate.



Courtesy photos

Ashley Bentley, left, Alisa Townsend, center, and Courtney Fowler from Meridianville Middle School watch the test stand to see if their design worked.

After testing their models, the students summarized their experience and conclusions in a storyboard to share with classmates. From left, front row: Whitney Knight, Marisa Bowen and Rebecca Crouch; back row: Alisa Townsend, Ashley Bentley, Melissa Maxwell and Sara Leibold.

Rogacki

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Advanced Space Transportation Program is pushing technologies to reduce that cost to only hundreds of dollars per pound by 2025 and a bargain price of tens of dollars per pound midway through the new century.

Of major importance, says Rogacki, is the "Integrated Space Transportation Plan (ISTP), that NASA has prepared for consideration by the Office of Management and Budget. This is a "technology road map that will address second-generation and third-generation reusable launch vehicles," says Rogacki. These are vehicles that go beyond Shuttle. The second-generation vehicles would become operational near the end of this decade. The third-generation vehicles would become operational around 2025.

ISTP is an effort that Marshall has led for NASA. Overall leadership for ISTP came from Dan Mulville, who was recently named NASA deputy associate administrator, Rogacki says. But, he adds, the plan is integrated across NASA and industry.

"We have had and continue to have significant involvement by virtually every NASA Center and some key industry participants in putting together this plan," Rogacki says. "It is a plan focused on providing a technology road map that will improve safety, improve reliability and improve affordability for space transportation."

Rogacki says his directorate represents a "very impressive collection of skilled and experienced people who work many hours beyond those normally expected."

Like other managers at Marshall, Rogacki focuses on the importance of safety. "Safety requires daily vigilance. It's not something you do once and finish."

Rogacki also emphasizes systems engineering and Marshall's relationships with its industry partners. "We are moving from an era where we were reluctant to provide significant oversight, to one in which we recognize the value of

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appropriately timed and targeted oversight and support."

Rogacki joined Marshall following Stephenson's decision to implement a major reorganization of the Center in 1999. Since coming to Marshall, Rogacki has developed what he calls a "before and after view" related to the decision to create the Space Transportation Directorate. "In the past, perhaps others saw us as one of a number of prominent participants in the government space transportation market. Today, it is really a national leadership role that we are stepping up to in terms of how others view us.

"We want to be seen as the leader for enabling and developing technologies for safe, reliable and affordable space transportation through innovation and through collaboration with industry."

To accomplish that goal, Rogacki and other managers within the directorate will continue to focus on what he calls "core strategies." These include working to develop the directorate's research capabilities, understanding the needs of its customers and stakeholders, and meeting program management commitments. It also includes selecting the proper programmatic and technical goals, identifying ways to invest in people in terms of safety, education and training, improving communications, recognizing and rewarding excellence, encouraging a balanced lifestyle for employees and improving efficiency in its business processes.

"Safe, reliable, affordable transportation has been the key to exploration and development of frontiers that emerged throughout history," Rogacki says. "And transportation is again the driver as we boldly prepare to explore the largest frontier of all – the space frontier."

For information on the Space Transportation Directorate and its projects, visit the Web at:
http://highway2space.com

The writer is the historian in the Internal Relations and Communications Department.

Buyout

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Perkinson, Don, SD71
Perkinson, Linda, RS20
Peters, Richard, ED12
Puett, John, AD02
Quick, Sheron, ED01
Ramsey, Melanie, TD71
Reaves, John, FD31
Riggins, Donald, FD22
Rithmire, Brenda, AD41
Ritter, Glen, ED40
Rosenthal, Max, XP40
Runkle, Roy, MP41
Ryland, Charles, SD22
Rylant, Wendell, TD71
Scofield, Harold, TD14
Self, Lori, FD33
Shackelford, Benjamin, TD51
Shelton, Harvey, FD21
Sims, Anne, ED02
Smith, Earnest, ED01
Smith, Kenneth, FD36
Spurrier, Michael, ED22
Stanfield, Harold, TD55
Stephens, James, ED04
Stone, Nobie, SD50
Stover, Calvin, AD30
Stover, Judy, FD11
Strong, Julia, AD50
Swain, Bernice, FD41
Swann, Linda, CD10
Taylor, John, CD01
Thomas, Troy, ED14
Thoms, Donald, TD15
Thornhill, Gaynell, AD33
Thornton, Shirley, AD41
Tucker, Nancy, XP10
Tyson, Timothy, CD70
Van Ark, Susan, CD30
Velvet, Camille, CD10
Walker, William, TD55
Wallace, Gabriel, ED40
Wallace, L, ED15
Williams, Ellen, AD32
Willoughby, Grover, ED36
Wilson, George, QS20
Wilson, Gregory, DA01
Wojtalik, Fred, XP01
Wright, Thomas, ED43
Zagrodzky, Robert, ED43

Obituary

Barefield, Alexander, 50, of Huntsville, died Dec. 18. He retired from Marshall in 1999 where he worked as a technical support assistant in the Nonmetallic Engineering and Processing Group of the Engineering Directorate. He is survived by his wife, Judi M. Barefield.

Job Opportunities

Reassignment Bulletin: 00-04-CL, AST, Technical Management, GS-801-13, in the Engineering Directorate, Engineering Systems Department, Engineering Services Office. Closes Jan. 18.

Reassignment Bulletin: 00-05-CV, AST, Flight Activity Planning, GS-801-13, in the Flight Projects Directorate, Payload Operations and Integration Department, Operations Development Group. Closes Jan. 18.

Reassignment Bulletin: 00-06-CV, AST, Manned systems, GS-801-12/13, in the Flight Projects Directorate, Payload Operations and Integration Department, Operations Training Group. Closes Jan. 18.

Reassignment Bulletin: 00-07-CV, AST, Aerospace Vehicle Design and Mission Analysis, GS-861-13, in the Flight Projects Directorate, Payload Operations and Integration Department, Mission Design Group. Closes Jan. 18.

Reassignment Bulletin: 00-08-CV, AST, Mission Operations Integration, GS-801-13, in the Flight Projects Directorate, Payload Operations and Integration Department, Multi-Use Payload Group. Closes Jan. 18.

Reassignment Bulletin: 00-09-KP, AST, Flight Systems Design, GS-861-11/12/13, in the Engineering Directorate, Structures, Mechanics & Thermal Department, GSE & Mechanisms Design Group. Closes Jan. 18.

Reassignment Bulletin: 00-11-MB, Program Analyst, GS-343-11/12, in the Space Shuttle Projects Office within the Business Management Office, External Tank Project. Closes Jan. 25.

Reassignment Bulletin: 00-12-MB, AST, Technical Management, GS-801-13, in the Space Shuttle Projects Office, External Tank Project. Closes Jan. 25.

Employee Ads

Miscellaneous

★ 1987 Stratos, 187V with 200 Merc. 12/24 OMC T/M. (256) 233-5032.
★ Maytag clothes washer, almond color, $100. 881-2069
★ Basketball goal post w/fiberglass backboard and hoop, $30. 881-0656 after 5 p.m.
★ Twin bed, wood headboard and footboard, Serta mattress and box springs, $45. 721-0617
★ Video rocker, new in package, green, $35. 650-5375 after 5 p.m.
★ Evenflo carseat/infant carrier, $30; vibrating bouncy seat, $10; framed Beatrix Potter pictures, $20. 828-9651
★ Entertainment center, solid oak, corner, 32" TV, $650; matching bookcase, 7' tall, $225. 881-5093
★ Merry tiller, 5HP, w/furrow attachment, $100; Lane recliners, two, brown fabric, $75 ea. 837-2992
★ Rear tine tiller, used twice, $600. 837-2740
★ Parsons dining table w/4 upholstered chairs, $75. 544-1451
★ Child car seat, $25; child booster seat for table, $10. 852-3501 after 4 p.m.
★ Maytag electric washer and dryer, heavy duty, large capacity, $80. 881-8953
★ Two end tables, glass top w/wood shelf on bottom, one w/small drawer under shelf, both $125. 828-4817
★ NordicTrack Pro ski machine, oak, $150; Parsons dining table w/4 upholstered chairs, $75. 883-1503
★ CardioGlide exercise machine w/resistance adjustment & electronic monitor for speed, distance, calories, & time, $50. 464-9910
★ 1997 32' Jayco slideout travel trailer, many extras, $15,000. 539-6013
★ Sky-blue folding card table w/4 matching chairs, $50. 722-9483
★ Aquarium w/wood stand & hood with lights, 75 gallon, $150; Jeep hard-top remover, new, $100. 882-2645
★ Beretta FS96 "Border Marshall," 2 mags, night sights, case, manuals, all original, $500 obo. 722-0882
★ Entertainment center, armoire style, Queen Anne legs, cherry finish, $250. 532-3129
★ Traditional chairs w/loose print fabric cushions, wood w/cane back. 534-4450
★ Iron fireplace grate, fits 42" wide firebox, never used, $5. 883-9278

Vehicles

★ 1992 Nissan pickup, automatic, a/c, stereo, maroon & white, 88K miles, $3,500. 880-9025
★ 1991 Chevrolet Corsica, white, 4-door, approx. 100K miles, $1,800 obo. 858-3842
★ 1985 Mazda 626, 5-speed, needs paint, 130K miles, $850. 837-4409
★ 1997 Saturn SC2 coupe, automatic, sunroof, CD, leather, all power, sport wheels, silver, 44K miles, $11,500. 880-9025
★ 1989 Mustang LX, hatchback, white, 4-cyl., a/c, auto, 38K miles, $3,400. 233-3548
★ 1999 Dodge Intrepid ES, white, tan leather interior, average mileage, $19,000. 931-433-5190
★ 1995 Mustang GT, 61K miles, 5-speed, black/tan leather, 8-speaker CD/tape/radio. 881-1390
★ 1978 Chevy Bonanza LWB pickup w/toolbox, V-8, 134K miles, $1,700. 536-8692
★ 1995 Ford Windstar GL, 49K actual miles, $9,500. 881-1449
★ 1998 Mazda 626 LX, 51K miles, burgundy moon roof, spoiler, CD, $12,000. 757-0320/627-3729
★ 1991 Nissan Sentra XE, air, am/fm cassette, cruise, 186K miles, $2,000 obo. 922-0606
★ 1989 Plymouth Voyager LE, blue/woodgrain, 217K miles, engine needs work, $850 obo. 778-9149
★ 1990 Dodge Grand Caravan, white w/wood, 90K miles, original owner, new transmission w/12-12 warranty, $4,950 obo. 534-6166
★ 1990 Honda Civic, 135K miles, a/c, am/fm cassette, $1,000. 517-1780/Anne
★ 1994 Buick LeSabre Custom, full power, 76K miles, $7,900 obo. 828-0801 after 5 p.m./leave message
★ 1992 Buick Century, white, am/fm stereo, 106K miles, $3,950. 773-7730

Wanted

★ 1958-1960 Edsel or repair parts. 883-2757
★ To buy RC airplane, rcvr, xmtr, or servos. 729-8020

Free

★ Puppies, Husky mix. Available Jan. 18. 883-5396
★ To worthy cause: complete Macintosh IIci, printer, modem, send written rationale to 6910 Steeplechase Drive, Huntsville, 35806

Lost

★ Men's Timex wrist watch, 12/99; 9"x13"x2" and 9"x4"x5" Pyrex dishes, 12/2/99. 881-6040

Center Announcements

☛ ***American Express Vacation Office Closed —*** The American Express vacation office at Marshall will be closed Jan. 18-Feb. 2. For vacation travel needs during this period, call American Express Travel at Kennedy Space Center at 1-800-348-4204.

☛ ***Government Accountants Meet —*** The North Alabama Chapter of the Association of Government Accountants will meet at 11 a.m. Jan. 20 at the Huntsville Marriott. For reservations, call Sandy Seymour at 544-0099.

☛ ***Shuttle Buddies —*** The Shuttle Buddies will meet for breakfast at 9 a.m. Jan. 24 at Mullins Restaurant on Andrew Way. For more information, call Deemer Self at 881-7757 or Gail Wynn at 852-8189.

☛ ***MOO Retirees Meet —*** The Management Operations Office (MOO) retirees will meet for breakfast/lunch at 10 a.m. on Jan. 27 at the Cracker Barrel Restaurant in Madison. For more information, call 539-0042.

☛ ***MESA Meets —*** The Marshall Engineers and Scientists (MESA) will meet at 11:30 a.m. Jan. 20 in Bldg. 4471, room C-105.

☛ ***NASA Ski Week —*** There are a few openings on the 9th Annual NASA Ski Week at Big Sky, Mont., Jan. 22-29. For information, call 544-6568 or e-mail Thomas.S.Dollman@msfc.nasa.gov

☛ ***Genealogical Computing Society Meets —*** The Huntsville Genealogical Computing Society will hold its monthly meeting at 7 p.m. Monday in the auditorium of the Huntsville-Madison County Main Library. Visitors are encouraged to attend. For more information, call Bob Pace at 881-6670.

☛ ***Weight Control —*** A weight control program focusing on lifestyle, exercise, attitude, relationships and nutrition. Classes are from noon-1 p.m. beginning Jan. 25 for 10 consecutive weeks. Administrative time has been approved for this program. For more information, call 544-7570 or e-mail: Patricia.Mirandy@msfc.nasa.gov.

☛ ***MARS Ballroom Dance Club —*** The MARS Ballroom Dance Club will offer single swing and bolero lessons on Jan. 17, 24 and 31 in the Parish Hall of St. Stephen's Episcopal Church at 8020 Whitesburg Dr. For more information, call Linda Kinney at 544-0563.

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